

WHAT IS CLAIMED IS:

1. A method implemented in an interactive television system for storing a program for deferred playback, wherein the program has one or more data streams comprising a 5 carousel of data objects and wherein the data objects are broadcast in the interactive television system as a first data stream, wherein the method comprises:
broadcasting the first data stream on a first channel;
receiving the first data stream on said first channel;
parsing the first data stream;
- 10 extracting the data objects from the first data stream;
storing a first set of the data objects from the first data stream on a storage device;
and
storing properties associated with the first data stream or the data objects on a storage device.
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2. The method of claim 1 wherein said data objects in said first set of data objects are non-live data objects and wherein the method further comprises:
inhibiting storage of a second set of the data objects, wherein said data objects in said second set are live data objects; and
20 storing references to said live data objects on a storage device.
3. The method of claim 1 further comprising:
broadcasting a second data stream containing one or more data objects;
in response to detecting the data objects in the first data stream reference one or 25 more of said data objects from said second data stream, extracting said one or more of said data objects from said second data stream; and
storing said one or more of said data objects from second data stream on a storage device.

4. The method of claim 1 further comprising broadcasting said properties in the first data stream, wherein one or more of said properties are selected from the group consisting of: one or more validity ranges; one or more data object identifiers; one or more version identifiers; and one or more references to a data object.

5. A system comprising:

an interactive television receiver configured to receive a pushed data stream as part of a program, wherein said pushed data stream contains a plurality of

10 data objects;

a storage device coupled to said interactive television receiver;

wherein said interactive television receiver is configured to extract said data objects from said pushed data; and

wherein said storage device is configured to store one or more of said data objects 15 as a first stored data.

6. The system of claim 5 wherein said first stored data includes one or more properties corresponding to one of said data objects or said pushed data stream.

20 7. The system of claim 6 wherein said properties are selected from the group consisting of: one or more validity ranges; one or more data object identifiers; one or more version identifiers; and one or more references to a data object.

25 8. The system of claim 5 wherein, for ones of said data objects comprising live data objects, the system is configured to store references to said live data objects instead of said live data objects.

9. The system of claim 5 further comprising a broadcast station coupled to said interactive television receiver, wherein said broadcast station is configured to transmit said pushed data stream to said interactive television receiver.

5 10. The system of claim 5 wherein said broadcast station is configured to transmit a file table corresponding to said program.

11. The system of claim 5 wherein said broadcast station is configured to transmit properties corresponding to said data objects.

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12. A method comprising:

providing a pushed data stream as part of a program, wherein said pushed data stream includes one or more data objects;

receiving said pushed data stream;

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extracting said data objects from said pushed data stream; and
storing said data objects on a storage device.

13. The method of claim 12 wherein providing said pushed data stream comprises providing a file table with said pushed data stream.

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14. The method of claim 12 further comprising storing a file table with said data objects.

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15. The method of claim 12 further comprising storing one or more object properties with said data objects.

16. The method of claim 15 wherein said one or more object properties are selected from the group consisting of: one or more identifiers; one or more version identifiers; one or more validity ranges; and one or more references to data object.

5 17. The method of claim 16 further comprising providing said object properties in said pushed data stream.

18. The method of claim 15 wherein said data objects are stored in a first file, and wherein said object properties of said data objects are stored in the header of said first
10 file.

19. The method of claim 15 wherein said data objects are stored in a first file, and wherein said object properties of said data objects are stored in a second file.

15 20. The method of claim 12 wherein said storing is in response to detecting a cached request for information contained in said pushed data stream.

21. The method of claim 20 further comprising fetching a first data object from said storage device, in response to detecting a reference to said first data object in said pushed
20 data stream, wherein said detecting occurs while said pushed data stream is played live.

22. The method of claim 12 further comprising:
detecting a reference in said pushed data stream to an external data object,
wherein said external data object is contained in a data stream that is not
25 contained in said pushed data stream;
selecting a data stream containing said external data object;
extracting said external data object from said data stream; and
storing said external data object on said storage device.

23. The method of claim 12 further comprising detecting a live data object in said pushed data stream and storing a reference to said live data object on said storage device.

5 24. The method of claim 23 wherein said reference to said live data object is stored as an object property on said storage device.

25. The method of claim 12 further comprising playing back said program from said storage device.

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